

Form PTO-1449
(Rev. 8-83)

U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket No. 0756-2070

Serial No. Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Applicant: Jun KOYAMA et al.

Filing Date: November 24, 1999

Group: 2775

564 U.S. PTO
09/448756
11/24/99

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
<i>PKB</i>	5,508,209	4/16/96	Zhang et al.	437	21	
<i>PKB</i>	5,100,810	3/31/92	Yoshimi et al.	437	21	
<i>PKB</i>	4,232,327	11/04/80	Hsu	437	44	
<i>PKB</i>	4,728,617	3/1/88	Woo et al.	437	44	
<i>PKB</i>	5,292,675	3/8/94	Codama	437	21	
<i>PKB</i>	4,772,927	9/20/88	Saito et al.	437	21	
<i>PKB</i>	5,474,945	12/12/95	Yamazaki et al.	437	41TFT	
<i>PKB</i>	5,430,320	07/04/95	Lee			
<i>PKB</i>	4,468,855	09/04/84	Sasaki			
<i>PKB</i>	4,646,426	03/03/87	Sasaki			
<i>PKB</i>	3,806,778	04/23/74	Shimakura et al.			

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation Yes No
<i>PKB</i>	60-55665	3/30/85	Japan			Abstract
<i>PKB</i>	61-224360	10/6/86	Japan			Abstract
<i>PKB</i>	6-13397	1/21/94	Japan			Abstract
<i>PKB</i>	54-70762	6/6/79	Japan			Abstract
<i>PKB</i>	5-275448	10/22/93	Japan			Abstract

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner

Paul Bell

Date Considered

6/13/2002

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<i>PCB</i>	5,521,107	05/28/96	Yamazaki et al.	/	/	
<i>PCB</i>	5,485,019	01/16/96	Yamazaki et al.	/	/	
<i>PCB</i>	3,988,214	10/26/76	Tsunemitsu	/	/	
<i>PCB</i>	3,935,083	01/27/76	Tomozawa et al.	/	/	
<i>PCB</i>	5,289,030	02/22/94	Yamazaki et al.	/	/	
<i>PCB</i>	5,474,945	12/12/95	Yamazaki et al.	/	/	
<i>PCB</i>	5,545,571	08/13/96	Yamazaki et al.	/	/	
<i>PCB</i>	5,468,987	11/21/95	Yamazaki et al.	257	412	03/05/92
<i>PCB</i>	5,492,843	02/20/96	Adachi et al.	437	21	07/29/94

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
<i>PCB</i>	5-823479	02/12/83	Japan	/	/		X
<i>PCB</i>	63-178560	07/22/88	Japan	/	/		X
<i>PCB</i>	2-307273	12/20/90	Japan	/	/		X
<i>PCB</i>	2-306664	12/20/90	Japan	/	/		X
<i>PCB</i>	1-183853	07/21/89	Japan	/	/	Abstract	
<i>PCB</i>	4-242724	8/31/92	Japan	/	/	Full	
<i>PCB</i>	4-242725	8/31/92	Japan	/	/	Full	

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<i>PUB</i>	5,308,998	05/03/94	Yamazaki et al.	257	57	08/24/92
<i>PUB</i>	5,495,121	02/27/96	Yamazaki et al.	257	384	03/05/92
<i>PUB</i>	4,368,523	01/11/83	Kawate	345	93	
<i>PUB</i>	4,804,953	02/14/89	Castleberry	345	93	
<i>PUB</i>	4,851,827	07/25/89	Nicholas	345	93	
<i>PUB</i>	4,931,787	06/05/90	Shannon	345	100	
<i>PUB</i>	5,038,368	08/06/91	Lee	327	525	
<i>PUB</i>	5,063,378	11/05/91	Roach	345	90	
<i>PUB</i>	5,111,060	05/05/92	Asada	327	526	
<i>PUB</i>	5,113,134	05/12/92	Plus et al.	345	904	
<i>PUB</i>	5,173,792	12/22/92	Matsueda	359	59	
<i>PUB</i>	5,260,818	11/9/93	Wu	359	59	
<i>PUB</i>	5,465,053	11/7/95	Edwards	345	93	9/14/93
<i>PUB</i>	5,453,858	9/26/95	Yamazaki			
<i>PUB</i>	5,701,167	12/23/97	Yamazaki			
<i>PUB</i>	5,849,601	12/15/98	Yamazaki			
<i>PUB</i>	5,821,559	10/13/98	Yamazaki et al.			
<i>PUB</i>	5,854,494	12/29/98	Yamazaki et al.			
<i>PUB</i>	5,218,464	6/8/93	Hiroki et al.			

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
<i>PUB</i>	5-166837	07/02/93	Japan				X
<i>PUB</i>	4-360580	12/14/92	Japan				X
<i>PUB</i>	0 650 197 A2	04/26/95	Europe			X	

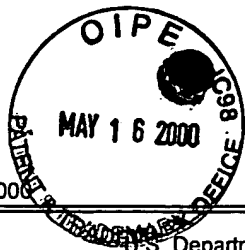
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Submitted with IDS of May 10, 2000

Sheet 1 of 1

Form PTO-1449
(Rev. 8-83)U.S. Department of Commerce
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Attorney Docket No. 0756-2070

Serial No. 09/448,756

Applicant: Jun KOYAMA et al.

Filing Date: November 24, 1999

Group: 2775

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
✓ PAB	6,028,333	02/22/00	Yamazaki et al	 	 	
✓ PVB	5,063,378	11/05/91	Roach	 	 	

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation Yes No	
✓ PAB	KR 92-704262	12/19/92	Korea	 	 		X

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
PAB	3,820,108	06/25/1974	Luce			
PAB	4,357,179	11/02/1982	Adams et al.			
PAB	4,380,008	04/12/1983	Kawakami et al.			
PAB	4,409,724	10/18/1993	Tasch, Jr. et al.			
PAB	4,413,256	11/01/1983	Yasuda et al.			
PAB	4,470,060	09/04/1984	Yamazaki			
PAB	4,525,436	06/25/1985	Yamazaki			
PAB	4,557,036	12/10/1985	Kyuragi et al.			
PAB	4,597,160	07/01/1986	Ipri			
PAB	4,605,972	08/12/1986	Hatanaka			
PAB	4,641,156	02/03/1987	Ohta et al.			
PAB	4,693,770	09/15/1987	Hatada			
PAB	4,709,993	12/01/1987	Matsuyama et al.			
PAB	4,716,403	12/29/1987	Morozumi			
PAB	4,727,044	02/23/1988	Yamazaki			
PAB	4,746,628	05/24/1988	Takafuji et al.			
PAB	4,757,028	07/12/1988	Kondoh et al.			
PAB	4,762,806	08/09/1988	Suzuki et al.			
PAB	4,762,807	08/09/1988	Yamazaki			
PAB	4,769,713	09/09/1988	Yasui			
PAB	4,775,641	10/04/1988	Duffy et al.			
PAB	4,783,143	11/08/1988	Eicher et al.			
PAB	4,808,991	02/28/1989	Tachiuchi et al.			
PAB	4,816,893	03/28/1989	Mayer et al.			
PAB	4,818,077	04/04/1989	Ohwada et al.			
PAB	4,836,654	06/06/1989	Fujimura et al.			
PAB	4,838,654	11/28/1989	Hamaguchi et al.			
PAB	4,884,079	11/01/1989	Inoue et al.			
PAB	4,905,066	02/27/1990	Dohjo et al.			
PAB	4,916,090	04/10/1990	Motai et al.			

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Group Art Unit: 2775

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
PAB	4,929,058	05/29/1990	Numao			
PAB	4,930,874	06/05/1990	Mitsumune et al.			
PAB	4,938,565	07/03/1990	Ichikawa			
PAB	4,942,441	07/17/1990	Konishi et al.			
PAB	4,959,700	09/25/1990	Yamazaki			
PAB	4,960,719	10/02/1990	Tanaka et al.			
PAB	4,994,877	02/19/1991	Ino et al.			
PAB	5,053,354	10/01/1991	Tanaka et al.			
PAB	5,081,523	01/14/1992	Frazier			
PAB	5,097,311	03/17/1992	Iwase et al.			
PAB	5,111,261	05/05/1992	Tanaka et al.			
PAB	5,117,298	05/26/1992	Hirai			
PAB	5,122,889	06/16/1992	Kaneko et al.			
PAB	5,132,677	07/21/1992	Nicholas			
PAB	5,151,689	09/29/1992	Kabuto et al.			
PAB	5,162,901	11/10/1992	Shimada et al.			
PAB	5,165,073	11/17/1992	Shaklee et al.			
PAB	5,165,075	11/17/1992	Hiroki et al.			
PAB	5,170,244	12/08/1992	Dohjo et al.			
PAB	5,193,018	03/09/1993	Wu			
PAB	5,261,156	11/16/1993	Mase et al.			
PAB	5,272,361	12/21/1993	Yamazaki			
PAB	5,274,279	12/28/1993	Misawa et al.			
PAB	5,275,872	01/04/1994	Chang			
PAB	5,280,280	01/18/1994	Hotto			
PAB	5,281,840	01/25/1994	Sarma			
PAB	5,287,095	02/15/1994	Kitazima et al.			
PAB	5,294,555	03/15/1994	Mano et al.			
PAB	5,294,811	03/15/1994	Aoyama et al.			
PAB	5,323,042	06/21/1994	Matsumoto			

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Sheet 4 of 5

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Applicant: Jun KOYAMA et al.

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Group: 2775

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
<i>P4B</i>	0 553 775	8/4/93	EP			Engl.	
<i>P4B</i>	0 554 063	8/4/93	EP			Engl.	
<i>P4B</i>	2-103925	4/17/90	Japan			Abst.	
<i>P4B</i>	2-130912	5/18/90	Japan			Abst.	
<i>P4B</i>	2-207537	8/17/90	Japan			Abst.	
<i>P4B</i>	3-154383	7/2/91	Japan			Abst.	
<i>P4B</i>	4-220627	8/11/92	Japan			Abst.	
<i>P4B</i>	4-267563	9/24/92	Japan			Abst.	
<i>P4B</i>	4-88642	3/23/92	Japan			Abst.	
<i>P4B</i>	5-114724	5/7/93	Japan			Abst.	
<i>P4B</i>	5-121440	5/18/93	Japan			Abst.	
<i>P4B</i>	5-249495	9/28/93	Japan			Abst.	
<i>P4B</i>	53-144297	12/15/78	Japan			Abst.	
<i>P4B</i>	55-011329	1/26/80	Japan			Abst.	
<i>P4B</i>	57-99778	6/21/82	Japan			Abst.	
<i>P4B</i>	58-115864	7/9/83	Japan			Abst.	
<i>P4B</i>	58-118154	7/14/83	Japan			Abst.	
<i>P4B</i>	58-124273	7/23/83	Japan			Abst.	
<i>P4B</i>	58-458967	9/21/83	Japan			Abst.	
<i>P4B</i>	58-206121	12/1/83	Japan			Full	
<i>P4B</i>	58-206163	12/1/83	Japan			Abst.	
<i>P4B</i>	58-32466	2/25/83	Japan			Abst.	
<i>P4B</i>	58-81972	5/17/83	Japan			Abst.	
<i>P4B</i>	59-159544	9/10/84	Japan			Abst.	
	59-33877	2/23/84	Japan			Abst.	
<i>P4B</i>	60-109282	6/14/85	Japan			Abst.	
<i>P4B</i>	60-113971	6/20/85	Japan			Abst.	
<i>P4B</i>	60-245172	12/4/85	Japan			Abst.	

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Group: 2775

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Atty Docket 0756-20

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INFORMATION DISCLOSURE STATEMENT

Applicants: Jun KOYAMA et al.

#5

Filing Date: November 24, 1999

Group Art Unit: 2775

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
<i>PAB</i>	01-194351	08/04/1989	Japan	 	 	Abst.	
<i>PAB</i>	02-089030	03/29/1990	Japan	 	 	Abst.	
<i>PAB</i>	59-081621	05/11/1984	Japan	 	 	Abst.	
<i>PAB</i>	63-096636	04/27/1988	Japan	 	 	Abst.	
<i>PAB</i>	63-159826	07/02/1988	Japan	 	 	Abst.	

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Serial No. 09/448,756
#6

INFORMATION DISCLOSURE STATEMENT

Applicants: Jun KOYAMA et al.

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Filing Date: November 24, 1999

Group 1 Unit: 2775

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
PUB	5,595,923	01/21/1997	Zhang et al.			

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation Yes No
PUB	05-107558	04/30/1993	JP			Eng Abst
PUB	06-102531	04/15/1994	JP			Eng Abst

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Serial No. 09/448,756

INFORMATION DISCLOSURE STATEMENT

Applicants: Jun KOYAMA et al. #7

Filing Date: November 24, 1999

Group Art Unit: 2775

U.S. PATENT DOCUMENTS

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PAB	5,566,009	10/15/1996	Yamazaki et al.			
PAB	5,583,369	12/10/1996	Yamazaki et al.			
PAB	5,849,043	12/15/1998	Zhang et al.			
PAB	5,938,839	08/17/1999	Zhang			
PAB	5,946,561	08/31/1999	Yamazaki et al.			

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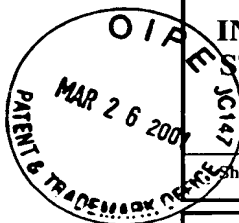
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	09/448,756
				Filing Date	November 24, 1999
				First Named Inventor	Jun KOYAMA et al.
				Group Art Unit	2775
				Examiner Name	Paul Bell
				Attorney Docket Number	740756-002070
Sheet	1	of	1		

U.S. PATENT DOCUMENTS						
Examiner Initials [*]	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
PAB		5,302,966		Stewart	4/12/94	

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		Office ³	Number ⁴	Kind Code ⁵ (if known)				

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials [*]	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²

Examiner Signature	Paul Bell	Date Considered	6/13/2002
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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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PCB Inventors: Jun KOYAMA et al., Specification and Drawings for U.S. Patent Application Serial No. 09/448,463, Filing Date: 11/24/1999, 41 pages, "Redundancy Shift Register Circuit for Driver Circuit in Active Matrix Type Liquid Crystal Display Device"

PCB Inventor: Shunpei YAMAZAKI, Specification and Drawings for U.S. Patent Application Serial No. 09/832,844, Filing Date: 04/12/2001, 44 Pages, "Electro-Optical Device and Method for Manufacturing the Same"

PCB Inventors: Jun KOYAMA et al., Specification and Drawings for U.S. Patent Application Serial No. 09/229,677, Filing Date: 01/13/1999, 33 Pages, "Semiconductor Integrated Circuit"

Examiner

Paul Bell

Date Considered

5/13/2002

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

05/01/2001